

# Safety Data Sheet

according to Regulations REACH 1907/2006/EC

REF: 918994	NANOCOLOR BOD5 Nutrient mixture without NATH	Page: 1/9
Printing date: 15.05.2024	Date of issue: 14.11.2022	Version: 2.2.2.2

## SECTION 1: Identification of the substance/mixture and of the company

### 1.1 Product identifier

REF 918994  
 Product name NANOCOLOR BOD5 Nutrient mixture without NATH

REACH Registration number(s): see SECTION 3.1/3.2 or  
 A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

10 x 0.18 g BOD<sub>5</sub> Nutrient mixture (R1), lyophilized  
 10 x 520 mg BOD<sub>5</sub> Nutrient mixture (R2), lyophilized

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses**  
 Product for analytical use.  
 Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0  
 The exposure scenario is integrated into sections 1-16.

**Uses advised against**  
 not described

### 1.3 Details of the supplier of the safety data sheet

**Manufactured by:**  
 MACHEREY-NAGEL GmbH & Co. KG  
 Valencienner Str. 11, 52355 Düren, Germany  
 Phone: +49 2421 969 0

E-mail: [sds@mn-net.com](mailto:sds@mn-net.com) ([msds@mn-net.com](mailto:msds@mn-net.com))

### 1.4 Emergency telephone number

Information not necessary.

You find our current versions of SDS in Internet:

<<http://www.mn-net.com/SDS>>

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product according to Regulation (EC) 1272/2008

Hazard identification	Hazard classes/categories

### 2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

**520 mg BOD<sub>5</sub> Nutrient mixture (R2), lyophilized**

Signal word	Do not need labelling as hazardous
No hazard class	-

**0.18 g BOD<sub>5</sub> Nutrient mixture (R1), lyophilized**

Signal word	Do not need labelling as hazardous
No hazard class	-

List of H phrases: see section 16.2

### 2.2 Label elements according regulation (EC) 1272/2008



MACHEREY-NAGEL GmbH & Co. KG  
 Valencienner Str. 11  
 52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 [info@mn-net.com](mailto:info@mn-net.com)  
 CH Tel.: +41 62 388 55 00 [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)  
 FR Tel.: +33 388 68 22 68 [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)  
 US Tel.: +1 888 321 62 24 [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

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**520 mg BOD<sub>5</sub> Nutrient mixture (R2), lyophilized**

Do not need labelling as hazardous  
Signal word: -

**0.18 g BOD<sub>5</sub> Nutrient mixture (R1), lyophilized**

Do not need labelling as hazardous  
Signal word: -

**Label elements of the complete product**

Signal word: -

**2.3 Other hazards**

**Possible hazards from physicochemical properties**

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential.

**Information pertaining to particular risks to human and possible symptoms**

**Information pertaining to particular risks to the environment**

**PBT:** not applicable  
**vPvB:** not applicable

**Possible endocrine disrupting effects**

no data available

## SECTION 3: Composition / information on ingredients

**3.1 Substances or 3.2 Mixtures**

**520 mg BOD<sub>5</sub> Nutrient mixture (R2), lyophilized**

Substance name: *ammonium chloride*  
CAS No.: 12125-02-9

Substance rating: H302, Acute Tox. 4 oral, H319, Eye Irrit. 2  
Formula: NH<sub>4</sub> Cl  
Pseudonym (de): Salmiak  
REACH Reg. No.: 01-2119487950-27-xxxx  
EC No.: 231-211-8  
Concentration: 1 - <4 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

Indice No.: 017-014-00-8

Substance name: *phosphates (buffer salts)*  
CAS No.: -

Substance rating: No criteria for classification or naming of chemical not required.  
Formula: K/Na 1-3 H 2-0 PO 4  
Concentration: 75 - <100 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

**0.18 g BOD<sub>5</sub> Nutrient mixture (R1), lyophilized**

Substance name: *magnesium sulfate*  
CAS No.: 7487-88-9

Substance rating: No criteria for classification or naming of chemical not required.  
Formula: MgSO<sub>4</sub>  
REACH Reg. No.: 01-2119486789-11-xxxx  
EC No.: 231-298-2  
Concentration: 97 - <100 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.



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### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.List of H and P phrases: see section 16.2.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately.

**4.1.1 After SKIN Contact**  
Not necessary.

**4.1.2 After EYE Contact**  
Not necessary.

**4.1.3 After INHALATION of vapours**  
Not necessary. ---

**4.1.4 After ORAL Intake**  
Not necessary.

### 4.2 Most important symptoms and effects, both acute and delayed

There are no known delayed symptoms or effects for this product.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**5.1.1 Suitable extinguishing media**  
Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used. Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

**5.1.2 Unsuitable extinguishing media**  
no data available

### 5.2 Special hazards arising from the substance or mixture

None.

### 5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

### 5.4 Additional information

no data available

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Not necessary.

### 6.2 Environmental precautions

**PBT:** not applicable  
**vPvB:** not applicable

### 6.3 Methods and material for containment and cleaning up

Clean working area with water. Flush used water into drains.

### 6.4 Reference to other sections

no data available



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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

### 7.2 Conditions for safe storage, including any incompatibilities

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Storage class (German chemical industry): see chapter 12.1

Storage class (VCI): 12

Water hazard class (DE): 1

### 7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

### 7.3 Specific end use(s)

Product for analytical use.

## SECTION 8: Exposure controls /personal protection

### 8.1 Control parameters

#### 520 mg BOD<sub>5</sub> Nutrient mixture (R2), lyophilized

Chemical: *ammonium chloride*

CAS No.: 12125-02-9

DNEL: 128.9<sub>derm</sub> mg/kg

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.25 mg/L

PNEC = Predicted No Effect Concentration

SUVA(CH) MAK value: 3 a mg/m<sup>3</sup>

NIOSH STEL: 20 mg/m<sup>3</sup>

Chemical: *phosphates (buffer salts)*

CAS No.: -

#### 0.18 g BOD<sub>5</sub> Nutrient mixture (R1), lyophilized

Chemical: *magnesium sulfate*

CAS No.: 7487-88-9

DNEL: [inh] 37.6 mg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 0.68 mg/L

PNEC = Predicted No Effect Concentration

### 8.2 Exposure controls

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

#### 8.2.1 Respiratory protection

Not necessary.

#### 8.2.2 Skin protection / Hand protection

Not necessary.

#### 8.2.3 Eye / Face Protection

Not necessary.

#### 8.2.4 Skin protection

Not necessary.

#### 8.2.5 Personal hygiene

Information not necessary.

#### 8.2.6 Thermal hazards

no data available

### 8.3 Limitation and monitoring of environmental exposure

Information not necessary.



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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**520 mg BOD<sub>5</sub> Nutrient mixture (R2), lyophilized**

a) State of aggregation:	solid (lyophilized)
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K <sub>o/w</sub> ):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

**0.18 g BOD<sub>5</sub> Nutrient mixture (R1), lyophilized**

a) State of aggregation:	solid (lyophilized)
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	no data available
l) Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K <sub>o/w</sub> ):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

### 9.2 Other information

**9.2.1 Information on physical hazard classes**

no data available

**9.2.2 Other safety-related parameters**

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

no known instability.



MACHEREY-NAGEL GmbH & Co. KG  
 Valencienner Str. 11  
 52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 info@mn-net.com  
 CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com  
 FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com  
 US Tel.: +1 888 321 62 24 sales-us@mn-net.com

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## 10.3 Possibility of hazardous reactions

None.

## 10.4 Conditions to avoid

Observe the storage temperature printed on it. Not known.

## 10.5 Incompatible materials

Not known.

## 10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

## SECTION 11: Toxicological information

### 11.1 Information on the hazard classes according regulation (EC) 1272/2008

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

#### 520 mg BOD<sub>5</sub> Nutrient mixture (R2), lyophilized

Chemical:	<i>ammonium chloride</i>	CAS No.: 12125-02-9
TSCA Inventory:	listed	
Japan CSCL/PRTR:	not listed, Japan PDSCl: not listed	
Japan ISHL:	listed ≥1,0%/≥1,0%,	
Korea Exist.Chem.Inventory:	KE-01645	
LD50 orl rat :	1440 mg/kg	
LC <sub>50</sub> orl rbt :	1000 mg/kg	
LC50 ihl rat :	1000 ppm/4h	
LD50 orl mus :	1300 mg/kg	

Chemical:	<i>phosphates (buffer salts)</i>	CAS No.: -
TSCA Inventory:	all listed	
Korea Exist.Chem.Inventory:	listed	
LD50 orl rat :	> 2000 mg/kg	

#### 0.18 g BOD<sub>5</sub> Nutrient mixture (R1), lyophilized

Chemical:	<i>magnesium sulfate</i>	CAS No.: 7487-88-9
TSCA Inventory:	listed	
Korea Exist.Chem.Inventory:	KE-22752	

### 11.2 Other hazards

#### Possible endocrine disrupting effects

no data available

#### Other information

no additional data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 520 mg BOD<sub>5</sub> Nutrient mixture (R2), lyophilized

Substance name:	<i>ammonium chloride</i>	CAS-Nr.: 12125-02-9
PNEC (fresh water) :	0.25 mg/L	
PNEC = Predicted No Effect Concentration = concentration at which no effect on the environment is expected		
LC50 fish/96h :	42.9 mg/L	
EC50 daphnia/48h :	136.6 mg/L	
EC50 chlorella vulgaris/5d :	EC50/5d: 1300 mg/L	
Water hazard class (DE):	1	WGK No.: 0213
Storage class (VCI):	12-13	

Substance name:	<i>phosphates (buffer salts)</i>	CAS-Nr.: -
Water hazard class (DE):	1	
Storage class (VCI):	13	



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## 0.18 g BOD<sub>5</sub> Nutrient mixture (R1), lyophilized

Substance name: *magnesium sulfate*

CAS-Nr.: 7487-88-9

PNEC (fresh water): 0.68 mg/L

PNEC = Predicted No Effect Concentration = concentration at which no effect on the environment is expected

LC50 pimephales promelas/96h: 680 MgX mg/L

LC50 fish/96h: [4d] 0.68; [48h] 0.72 mg/L

EC50 daphnia/48h: 720 MgX mg/L

EC50 chlorella vulgaris/5d: [18d] 2700 mg/L

Water hazard class (DE): 1

Storage class (VCI): 12-13

### 12.2 Persistence and degradability

### 12.3 Bioaccumulative potential

#### 520 mg BOD<sub>5</sub> Nutrient mixture (R2), lyophilized

Substance name:

*ammonium chloride*

CAS-Nr.: 12125-02-9

Dispersion coefficient (K<sub>ow</sub>):

-4,37

### 12.4 Mobility in soil

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

no data available

### 12.7 Other adverse effects

no additional data available

## SECTION 13: Disposal considerations

Not necessary.

### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains.

## SECTION 14: Transport information

14.1 - 14.4 Not necessary

### 14.5 Environmental hazards

none

### 14.6 Special precautions for user

not necessary

### 14.7 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020

Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

MN leaflet/instructions for use, also at [www.mn-net.com](http://www.mn-net.com)

If necessary, observe other country-specific regulations.

### 15.2 Chemical safety assessment

no data available



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52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 [info@mn-net.com](mailto:info@mn-net.com)  
CH Tel.: +41 62 388 55 00 [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)  
FR Tel.: +33 388 68 22 68 [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)  
US Tel.: +1 888 321 62 24 [sales-us@mn-net.com](mailto:sales-us@mn-net.com)



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### SECTION 16: Other information

#### 16.1 Changes compared to the last version

in preparation

#### 16.2 List of H and P phrases

**16.2.1 List of relevant H phrases**  
H in preparation

**16.2.2 List of relevant P phrases**

#### 16.3 Recommended restriction on use

None

#### 16.4 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021  
 Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive atmospheres  
 SUVA .CH, limit values in the air at work 2009, revised on 01/2009  
 Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)  
 Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG  
 Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)  
 Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)  
 Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progress (11th ATP)  
 Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP)  
 Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)  
 TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019  
 Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)  
 Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG  
 Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP)  
 Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP)  
 Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP)  
 Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

#### revisions/updates

*Reason for revision:* 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary  
 2014-04 adjustment according Regulation 487/2013/EU  
 2016-03 adjustment according Regulation 1221/2015/EU  
  
 2017-11 adjustment according the ECHA registration dossier  
 2022-11 adjustment according Regulation 878/2020/EU

#### 16.5 Further information

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.  
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#### 16.6 Legend / Abbreviations

acc:	according
ADR:	Convention concerning the International Carriage of Dangerous Goods by Road
Act:	acute
BAT:	biological workplace tolerance value
CAO:	Cargo Aircraft Only
Carc:	carcinogen
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging regulation
CMR:	carcinogen, mutagen, reproduction toxic
Corr:	corrosive
COD:	chemical oxygen demand
CSCL:	Chemical Substance Control Law (Jp)
Dam:	damage
DNEL:	Derived No-Effect Level (for workers)



MACHEREY-NAGEL GmbH & Co. KG  
 Valenciennes Str. 11  
 52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 info@mn-net.com  
 CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com  
 FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com  
 US Tel.: +1 888 321 62 24 sales-us@mn-net.com



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- derm: dermal
- dog: dog
- EC10: Concentration causing a toxic effect in 10% of the test organisms
- EC: European Community
- EC-Nr: Substance number of the EC substance inventory
- EmS: Guide to accident management measures on ships
- EU: European Union
- fish: fish (not specified)
- GHS: Global Harmonized System of Classification and Labeling of Chemicals
- gpg: guinea pig
- ICAO: International Civil Aviation Organization
- ihl: inhaled
- IMDG: International Maritime Dangerous Goods Code
- intrav: intravenous
- ipt: intraperitoneal
- ISHL: Industrial Safety and Health Law (Jp)
- LC50: letale concentration 50%
- LD50: letale dosis 50%
- leuciscus idus: fisch, ide, orfe
- MAK: maximum workplace concentration
- Met: Metall
- mus: mouse
- Muta: mutagen
- NIOSH: National Institute for Occupational Safety and Health (US)
- NRD: Non-rapidly degradable
- onchorhynchus mykiss: fisch, rainbow trout
- orl: oral
- OSHA: Occupational Safety and Health Administration
- PAX: transport on passenger planes allowed
- PBT: persistent, bioaccumulating, toxic substance
- pH: pH value
- pimephales promelas: fisch, fathead minnow
- PNEC: Predicted No Effect Concentration
- PROC 15: Process category 'for laboratory use'
- PRTR: Law for PRTR and Promotion of Chemical Management (Jp)
- PVC: polyvinyl chloride
- quail: bird, quail
- rat: rat
- rbt: rabbit
- RD: rapidly degradable
- RE: repeated
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- REF: item number, reference number
- Reg.No.: rRegistration number
- Repr: harmful to reproduction
- Resp: respiratory
- RIP: REACH Implementations Projects
- scu: sub cutan
- SDS: safety data sheet
- Sens: sensitisation
- STEL: short term exposure limit
- STOT: Specific Target Organ Toxicity
- SVHC: Substance of Very High Concern
- t/a: tons per year
- TCCA: Toxic Chemicals Control Act (S. Korea)
- Tox: toxic
- TSCA: The Toxic Substances Control Act (US)
- TWA: time weighted average
- TRGS: technical regulations (DE)
- vPvB: very persistent, very bioaccumulating substance

## 16.7 Training advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.



MACHEREY-NAGEL GmbH & Co. KG  
 Valenciener Str. 11  
 52355 Düren · Germany  
[www.mn-net.com](http://www.mn-net.com)

DE Tel.: +49 24 21 969-0 info@mn-net.com  
 CH Tel.: +41 62 388 55 00 sales-ch@mn-net.com  
 FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com  
 US Tel.: +1 888 321 62 24 sales-us@mn-net.com